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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/535,857	03/27/2000	Danielle Kathym Dittrich	0036.0061	3875

24033 7590 03/12/2004

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EXAMINER

GRANT II, JEROME

ART UNIT

PAPER NUMBER

2626

DATE MAILED: 03/12/2004

5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/535,857

Applicant(s)

DANIELLE DITTRICH

Examiner

Jerome Grant II

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3,6,13-15,18,25-27,30,37 and 38 is/are rejected.
- 7) ☒ Claim(s) 4,5,7-12,16,17,19-24,28,29,31-36 and 39 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.

- 4) ☐ Interview Summary (PTO-413) Paper No(s) ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

JEROME GRANT II
PRIMARY EXAMINER

1.

Informality

Claim 39 is mis-numbered as claim 38. In other words, there are two claims numbered 38. Correction is required.

2.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 6, 13-15, 19, 25-27, 30, 37 and 38 rejected under 35 U.S.C. 102(b) as being anticipated by Seto.

With respect to claim 1, Seto teaches a method for generating a table RAM for enhancing the print quality of input raster pel data, comprising:

Generating an output value (density images) for different patterns (minimum to max density values), wherein each output value indicates a sub-pulse width power to charge

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to a sub-pel region (partial region of M-Dot) within a pel M-Dot and position information $m + (1-14)$ or a numerical density value of max F0 indicating the justification of the sub-pel region within the pel; and forming a LUT (RAM 35) from the generated output values that enhance print quality.

With respect to claims 2, 14 and 26, see the charged region shown by figure 14B.

With respect to claims 3, 15 and 27, each value is a function of the pulse width according to col. 14, lines 14-24.

With respect to claims 6, 18 and 30, the sub-pulse width power is generated by weights (1P and 2P clock control phases) indicating the affect of a subject black pel 9 or any other pel $m+(1-14)$ DOT) on surrounding pels.

With respect to claim 13, Seto teaches a system (shown by figure 5) for generating a table RAM for enhancing the print quality of input raster pel data, comprising:

With respect to claim 14, Seto teaches a processor 4, shown in figure 25, for generating an output value (density images) for different patterns (minimum to max density values), wherein each output value indicates a sub-pulse width power to charge to a sub-pel region (partial region of M-Dot) within a pel M-Dot and position information $m + (1-14)$ or a numerical density value of max F0 indicating the justification of the sub-

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pel region within the pel; and forming a LUT (RAM 35) from the generated output values that enhance print quality.

With respect to claim 25, Seto teaches an article of manufacture, shown by figures 5 or 25, for generating a table (RAM 35) for enhancing a quality of pel data, the article of manufacture (figures 5 or 25) having a computer program having a host computer 1000 shown by figure 2 for providing instructions to the CPU 38 of figure 5 for performing processing operations. Seto teaches generating an output value 9density images) for different patterns (minimum to max density values), wherein each output value indicates a sub-pulse width power to charge to a sub-pel region (partial region of M-Dot) within a pel M-Dot and position information $m + (1-14)$ or a numerical density value of max F0 indicating the justification of the sub-pel region within the pel; and forming a LUT (RAM 35) from the generated output values that enhance print quality.

With respect to claim 37, Seto teaches a computer readable transmission medium (see Col. 13, lines 44-49 and RAM 35) which includes a LUT, an output value (0 or 1) for different patterns of pel data; a sub-pulse width power (1159 according to figure 33) to charge a sub-region within a pel; and position information $(m+(1-14))$ Dot shown by figure 14b, indicating a region within a pel.

With respect to claim 38, Seto teaches a LUT RAM 35 and output values depending on a surrounding pel (see figure 14B). Furthermore, Seto teaches each value is a function of the pulse width according to col. 14, lines 14-24.

3.

Claims Objected

Claims 4, 5, 7-12, 16, 17, 19-24, 28, 29, 31-36 and 39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

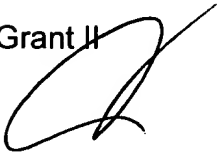
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 703-305-4391. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams, can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

J. Grant II



JEROME GRANT II
PRIMARY EXAMINER